

WHAT IS CLAIMED IS:

1 *SUB*
2 *B3 A1* 1. A system for recovering a table comprising:
3 a table recovery system; and
4 a tablespace access system coupled to the table
5 recovery system, wherein the tablespace access system is
6 operable to restrict access to the tablespace to read-only
access.

2 *Sub B3* 2. The system of claim 1 wherein the table recovery
3 system further comprises a log record sorter system operable to
4 sort log records from a log record file.

3 3. The system of claim 2 further comprising a data page
4 updater system coupled to the log record sorter system operable
5 to apply log record updates to a data page.

1 4. The system of claim 3 further comprising a data page
2 scanner system coupled to the data page updater system, the
3 data page scanner system operable to locate records associated
4 with a table in a data page.

1 5. The system of claim 4 further comprising a page row
2 extractor system coupled to the data page scanner system
3 operable to extract page rows from a data page that has been
4 located by the data page scanner system.

1 6. The system of claim 5 further comprising a table row
2 inserter system coupled to the page row extractor system
3 operable to write extracted page rows to the table.

1 7. A method for recovering a table that depends on a
2 tablespace, said method comprising:

3 allowing at least one other table to have read-only
4 access to the tablespace; and

5 using a backup copy of the tablespace to restore the
6 table.

1 8. The method of claim 7, further comprising allowing
2 said at least one other table to have update access to the
3 tablespace when the table is restored.

1 9. The method of claim 7 wherein using the copy of the
2 tablespace to restore the table comprises:

3 deleting all rows of the table;
4 locking out access to indexes of the table;
5 applying log records to the tablespace backup copy to
6 update the tablespace backup copy;
7 building new table data pages with the updated tablespace
8 backup copy; and
9 updating the table with the new table data pages.

10. The method of claim 9 wherein applying log records to
the tablespace backup copy to update the tablespace backup copy
further comprises:

reading the log records from a log record file to a log
record workspace;
sorting the log records; and
applying the log records to the tablespace backup copy.

11. The method of claim 9 wherein building new table data
pages with the updated tablespace backup copy comprises
scanning the new table data pages for records that belong to
the table being recovered.

1 *Sub 52* 12. A method of recovering a first table that depends on
2 *BS* a tablespace, said method comprising:

3 receiving a backup copy of the tablespace;
4 reading log records associated with the first table;
5 applying the log records to the backup copy;
6 building new table data pages from the backup copy;
7 scanning the new table data pages for records of the first
8 table; and
9 updating the first table from the records.

10 13. The method of claim 12, further comprising:
11 limiting access of a second table to the tablespace to
12 read-only before the first table is updated, wherein the second
13 table depends on the tablespace.

14 14. The method of claim 13, further comprising:
15 providing update access to the second table after the
16 first table is updated.

17 15. The method of claim 12, further comprising sorting
18 the log records.

1 16. The method of claim 12 wherein the first table
2 comprises rows and indices, the method further comprising:
3 deleting the rows; and
4 locking out the indices.

*add
A3*

*add
D1*